

SEQUENCE

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 41▶ C N A S V T N S V K G T N A I L W T C L
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 61▶ G L S L I I S L A V F V L M F L L R K I
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 361 TAC AOG GTG GAA GAA TGC AOC TGT GAA GAC TGC ATC AAG AGC AAA CCG AAG GTC GAC TCT
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 141▶ D H C F P L P A M E G A T I L V T T K
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FIG. 1

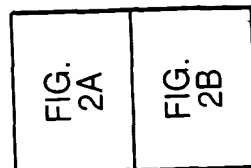


FIG. 2

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1  ATG GAG ACA GAC ACA CTC CTG TTA TGG GTG CTG CTC TGG GTT OCA GGT TOC ACT GGT
1▶
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SEQ ID 3 61 GAC GTC ACG ATG TTG CAG ATG GGT GGG CAG TGC TOC CAA AAT GAA TAT TTT GAC AGT TTG
    1▶ M L Q M A G Q C S Q N E Y F D S L
    21▶ D V T M L Q M A G Q C S Q N E Y F D S L
121 TTG CAT GCT TGC ATA OCT TGT CAA CTT OGA TGT TCT TCT AAT ACT OCT CTA ACA TGT
18▶ L H A C I P C Q L R C S S N T P P L T C
41▶ L H A C I P C Q L R C S S N T P P L T C
181 CAG OGT TAT TGT AAT GCA AGT GTG ACC AAT TCA GTG AAA GGA GTC GAC AAA ACT CAC ACA
38▶ Q R Y C N A S V T N S V K G
61▶ Q R Y C N A S V T N S V K G V D K T H T
241 TGC OCA OCG TGC OCA GCA OCT GAA CTC CTG GGG GGA OOG TCA GTC TTC CTC TTC CCC CCA

81▶ C P P C P A P E L L G G P S V F L F P P
301 AAA CCC AAG GAC ACC CTC ATG ATC TOC OGG ACC OCT GAG GTC ACA TGC GTG GTG GAC

101▶ K P K D T L M I S R T P E V T C V V V D
361 GTG AGC CAC GAA GAC OCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT

121▶ V S H E D P E V K F N W Y V D G V E V H
421 AAT GCC AAG ACA AAG OCG OCG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTC AGC GTC

141▶ N A K T K P R E E Q Y N S T Y R V V S V
481 CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TOC AAC

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FIG. 2A

161▶ L T V L H Q D W L N G K E Y K C K V S N
541 AAA GCC CTC OCA GCC CCC ATC GAG AAA AOC ATC TOC AAA GOC AAA GGG CAG CCC OCA GAA

181▶ K A L P A P I E K T I S K A K G Q P R E
601 CCA CAG GTG TAC AOC CTG CCC OCA TOC CGG GAT GAG CTG ACC AAG AAC CAG GTC AGC CTG

201▶ P Q V Y T L P P S R D E L T K N Q V S L
661 ACC TGC CTG GTC AAA GGC TTC TAT OCC AGC GAC ATC GOC GTG GAG TGG GAG AGC AAT GGG

221▶ T C L V K G F Y P S D I A V E W E S N G
721 CAG CCG GAG AAC AAC TAC AAG AOC AOC OCT OCC GTG TTG GAC TOC GGC TOC TTC TTC

241▶ Q P E N N Y K T T P P V L D S D G S F F
781 CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA TGC

261▶ L Y S K L T V D K S R W Q Q G N V F S C
841 TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC AOC CAG AAG AGC CTC TOC CTG TCT CCC

281▶ S V M H E A L H N H Y T Q K S L S L S P
901 GGG AAA TGA

301▶ G K •

FIG. 2B

1 AAGACTCAAA CTTAGAACT TGAATTAGAT GTGGTATTCA AATCCTTACG TGCCGCGAAG
 61 ACACAGACAG CCCCCGTAAG AACCCACGAA GCAGGCGAAG TTCATTGTTC TCAACATTCT
 EcoRI
 121 AGCTGCTCTT GCTGCATTG CTCTGGAATT CTTGTAGAGA TATTACTTGT CCTTCCAGGC
 SfiI BclI
 181 TGTTCCTTCT GTAGCTCCCT TGTTCCTTCT TGTGATCAT GTTGACATG GCTGGGCAGT
 1► M L Q M A G Q
 SspI SphI HincII
 241 GCTCCCAAAA TGAATATTTT GACAGTTTGT TGCATGCTTG CATACCTTGT CAACTTCGAT
 8► C S Q N E Y F D S L L H A C I P C Q L R
 Pci I
 AflIII
 301 GTTCTTCTAA TACTCCTCCT CTAACATGTC AGCGTTATTG TAATGCAAGT GTGACCAATT
 28► C S S N T P P L T C Q R Y C N A S V T N
 BsmFI
 361 CAGTGAAAGG AACGAATGCG ATTCTCTGGA CCTGTTTGGG ACTGAGCTTA ATAATTTCTT
 48► S V K G T N A I L W T C L G L S L I I S
 421 TGGCAGTTT CGTGCTAATG TTTTGTCTAA GGAAGATAAG CTCTGAACCA TTAAAGGACG
 68► L A V F V L M F L L R K I S S E P L K D
 DraI AluI BsaI
 481 AGTTTAAAAA CACAGGATCA GGTCTCCTGG GCATGGCTAA CATTGACCTG GAAAAGAGCA
 88► E F K N T G S G L L G M A N I D L E K S
 XmnI StuI XhoI
 541 GGAAGGTGA TGAAATTATT CTTCCGAGAG GCCTCGAGTA CACGGTGGAA GAATGCACCT
 108► R T G D E I I L P R G L E Y T V E E C T
 SalI
 HincII
 Accl
 BbsI
 601 GTGAAGACTG CATCAAGAGC AAACCGAAGG TCGACTCTGA CCATTGCTTT CCACTCCCAG
 128► C E D C I K S K P K V D S D H C F P L P
 661 CTATGGAGGA AGGCGCAACC ATTCTTGTCA CCACGAAAAC GAATGACTAT TGCAAGAGCC
 148► A M E E G A T I L V T T K T N D Y C K S
 PvuII
 721 TGCCAGCTGC TTTGAGTGCT ACGGAGATAG AGAAATCAAT TTCTGCTAGG TAATTAACCA
 168► L P A A L S A T E I E K S I S A R
 XhoI DraI BglII
 781 TTTCGACTCG AGCAGTGCCA CTTTAAAAAT CTTTGTCTAG AATAGATGAT GTGTCAGATC
 841 TCTTTAGGAT GACTGTATTT TTCAGTTGCC GATACAGCTT TTTGTCCTCT AACTGTGGAA
 Styl
 901 ACTCTTTATG TTAGATATAT TTCTCTAGGT TACTGTTGGG AGCTTAATGG TAGAAACTTC
 961 CTTGGTTTCA TGATTAAAGT CTTTTTTTTT CCTGA

FIG. 3

STRUCTURE COMPARISON BETWEEN TNF-R55 AND BAFF-R

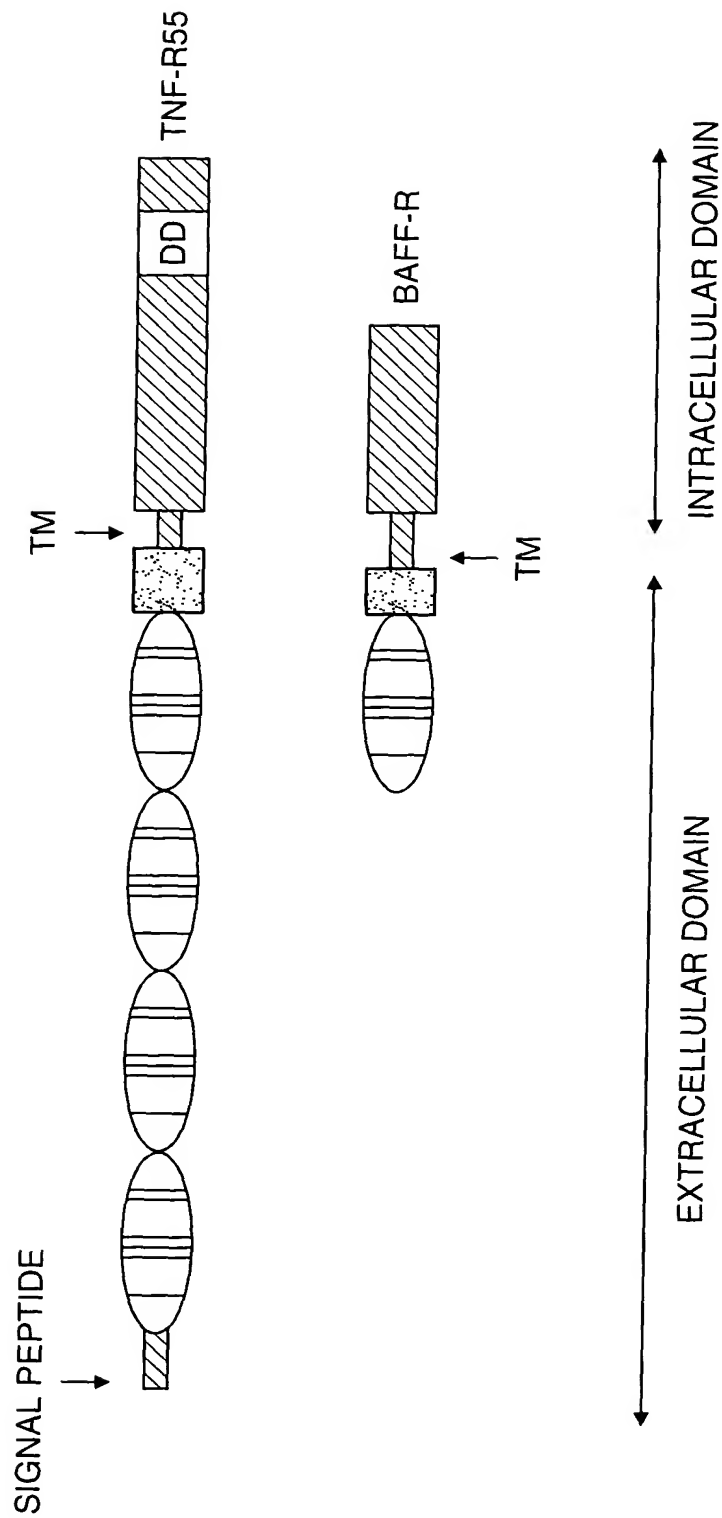


FIG. 4

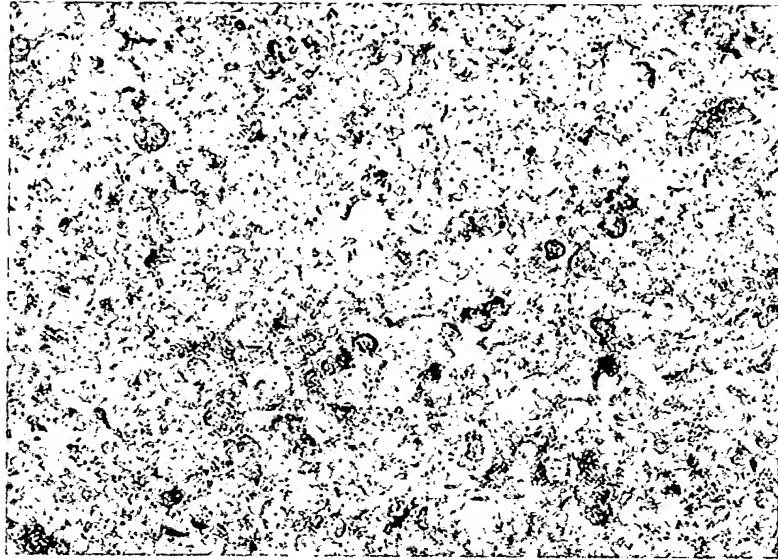


FIG. 5A

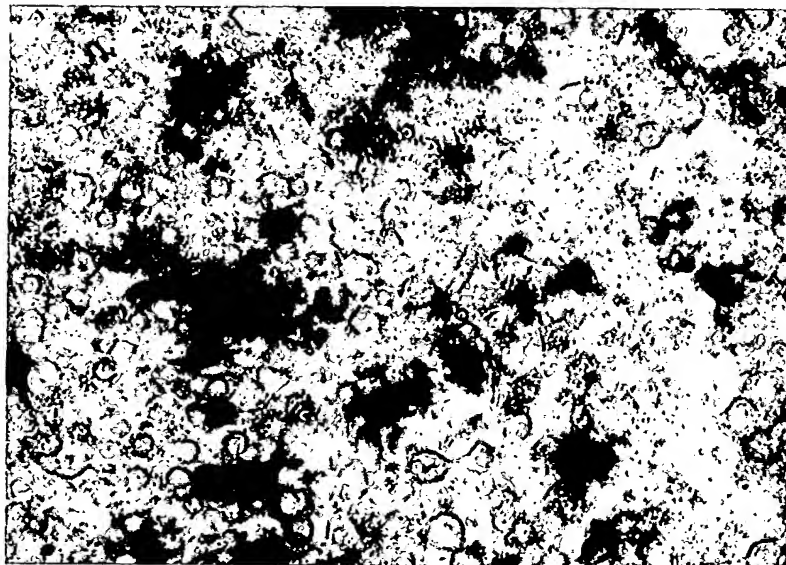


FIG. 5B

FIG. 5A

005420 44400

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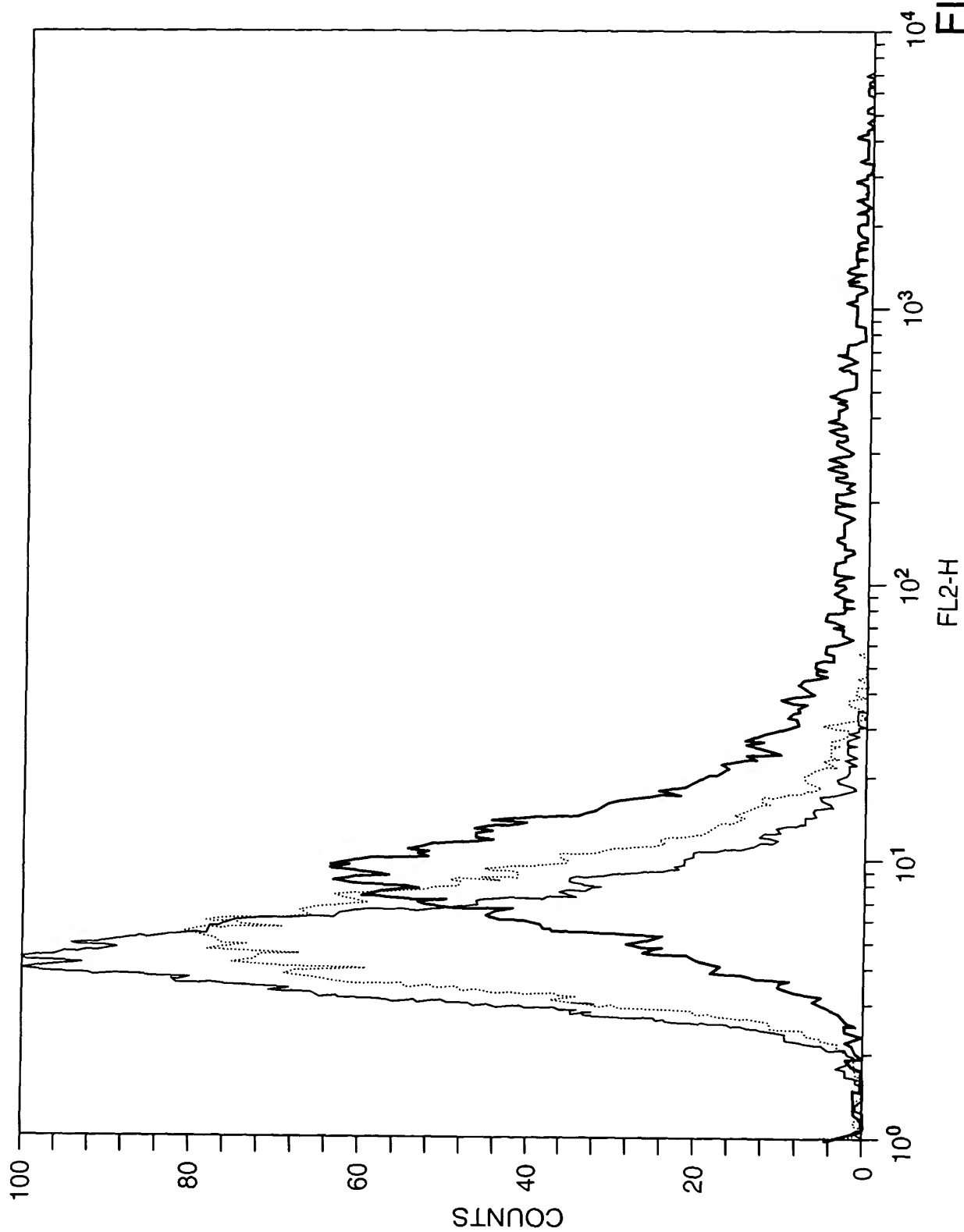
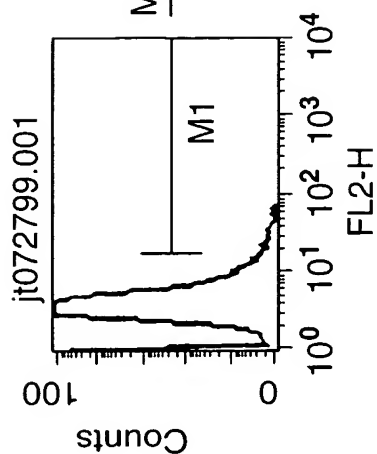
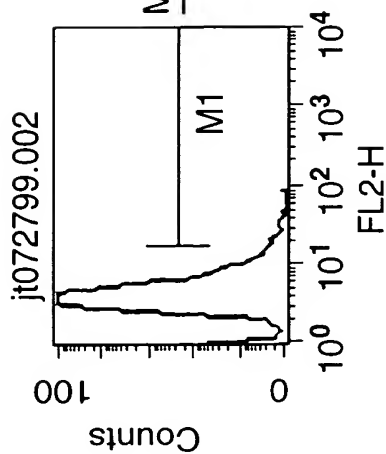


FIG. 6A



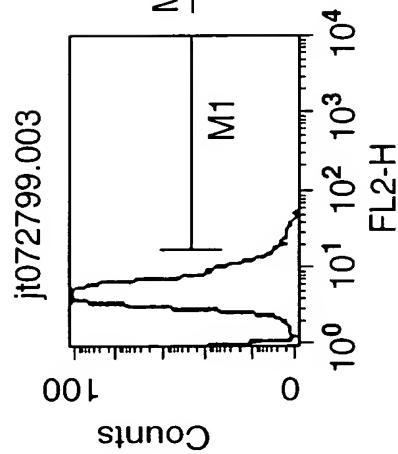
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.26	3.80	61.34	3.65
M1	17.	9910	65	0.65	0.65	23.23	22.44	30.37	20.35

FIG. 6B-1



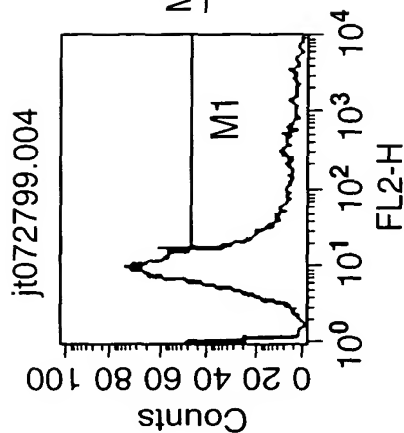
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.61	4.11	61.98	3.89
M1	17.	9910	79	0.79	0.79	22.88	21.98	34.94	19.63

FIG. 6B-2



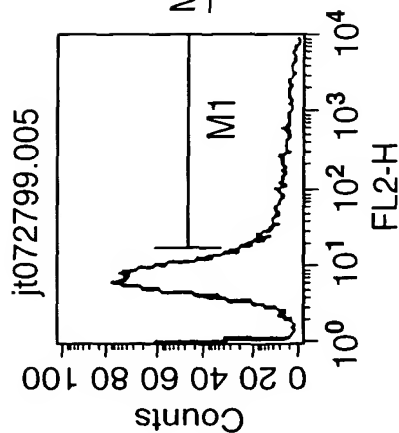
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	5.51	4.93	58.41	4.66
M1	17.	9910	130	1.30	1.30	23.55	22.98	23.39	22.57

FIG. 6B-3



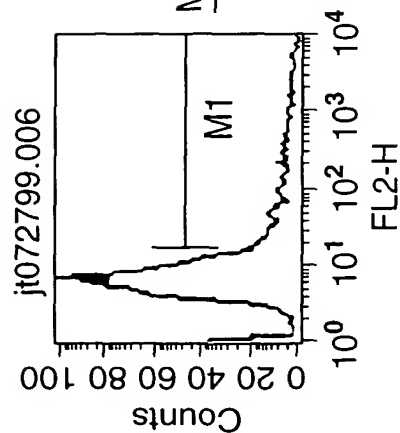
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	108.24	15.40	459.27	10.27
M1	17.	9910	2785	27.85	27.85	366.10	85.21	243.61	45.32

FIG. 6B-4



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	72.53	11.42	516.47	7.84
M1	17.	9910	2054	20.54	20.54	324.52	88.86	239.37	61.80

FIG. 6B-5



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	51.15	9.41	566.98	6.67
M1	17.	9910	1673	16.73	16.73	272.40	81.97	244.63	54.25

FIG. 6B-6

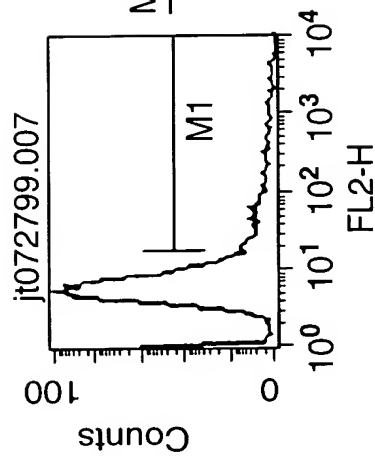


FIG. 6B-7

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	26.59	7.74	576.94	5.94
M1	17.	9910	1313	13.13	13.13	161.35	60.77	246.67	42.94

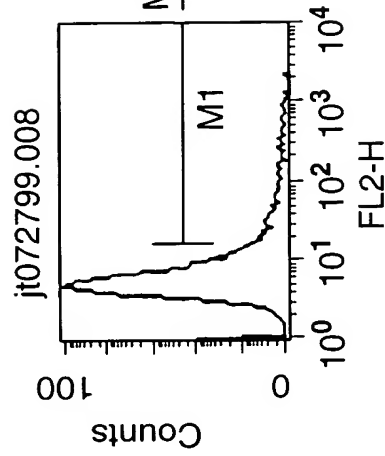


FIG. 6B-8

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	12.39	6.54	405.32	5.47
M1	17.	9910	876	8.76	8.76	78.94	43.41	195.84	33.68

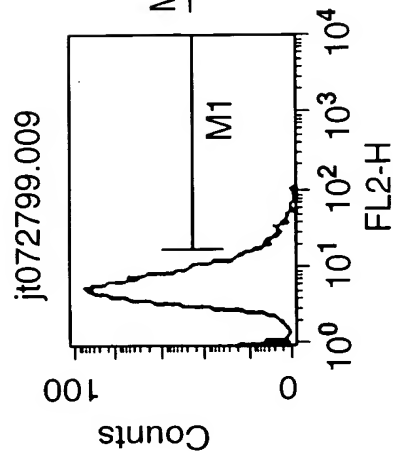


FIG. 6B-9

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	6.99	6.60	69.06	5.67
M1	17	9910	393	3.93	3.93	24.33	23.31	33.78	21.48

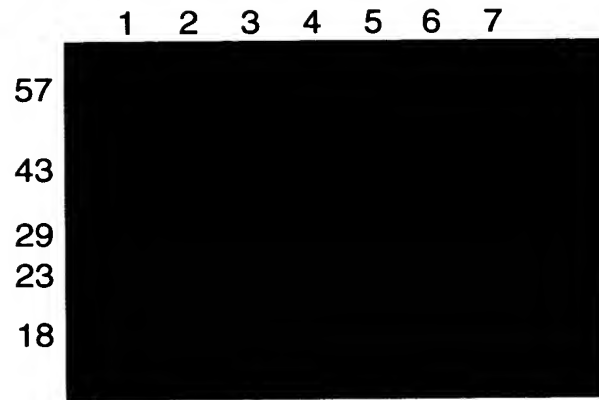


FIG. 7

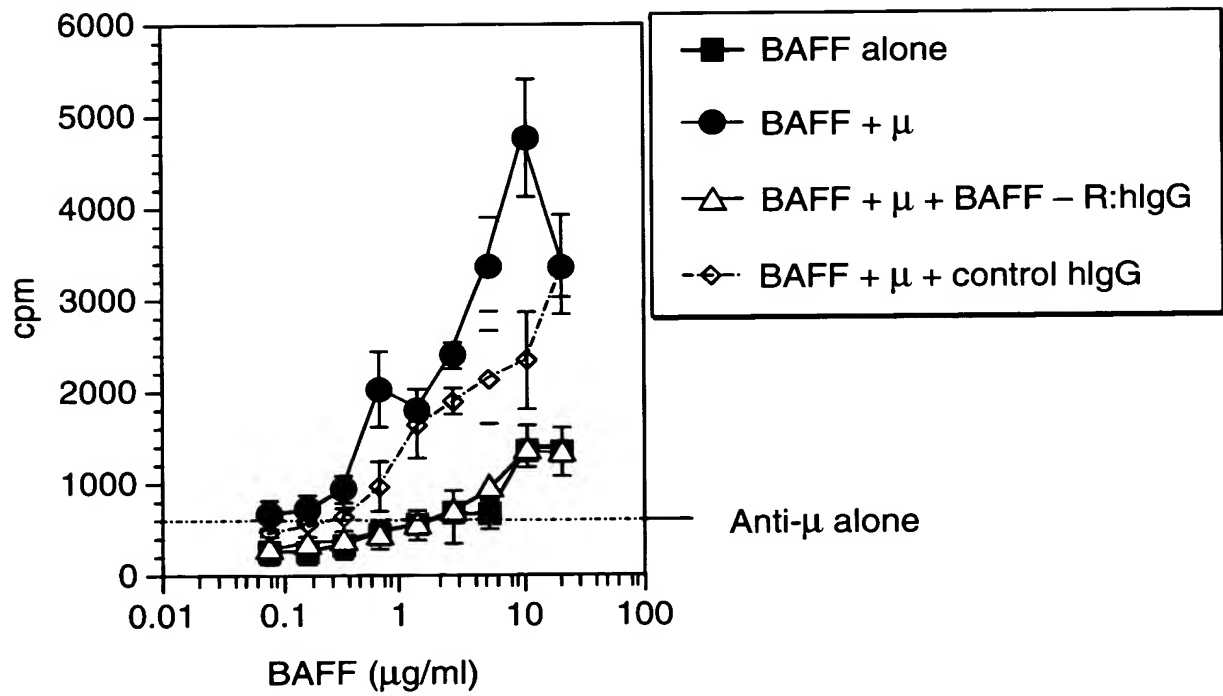


FIG. 8

FIG. 9

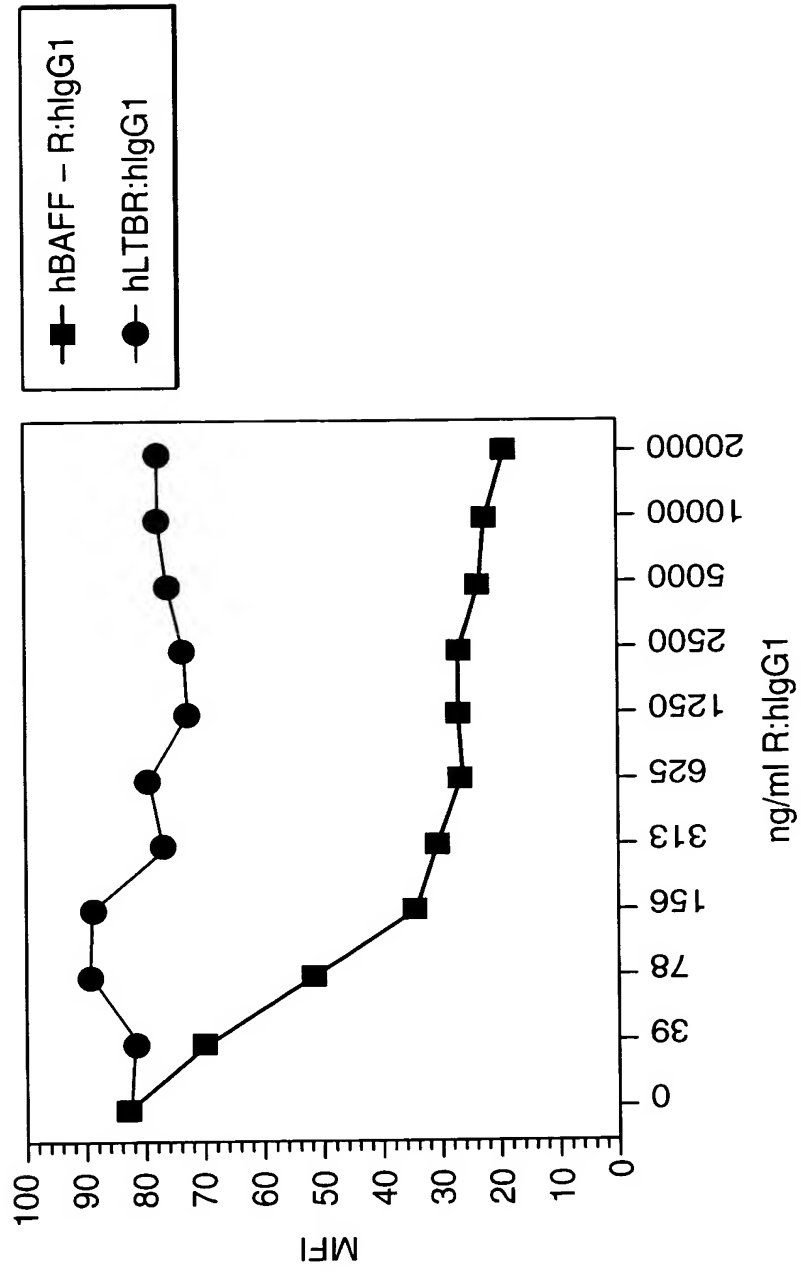


FIG. 9

FIG. 10A

BCMA-Ig Treatment Reduces Total CD1^{hi}/IgM^{hi}
B Cell Populations in Spleens of Baff Tg Mice

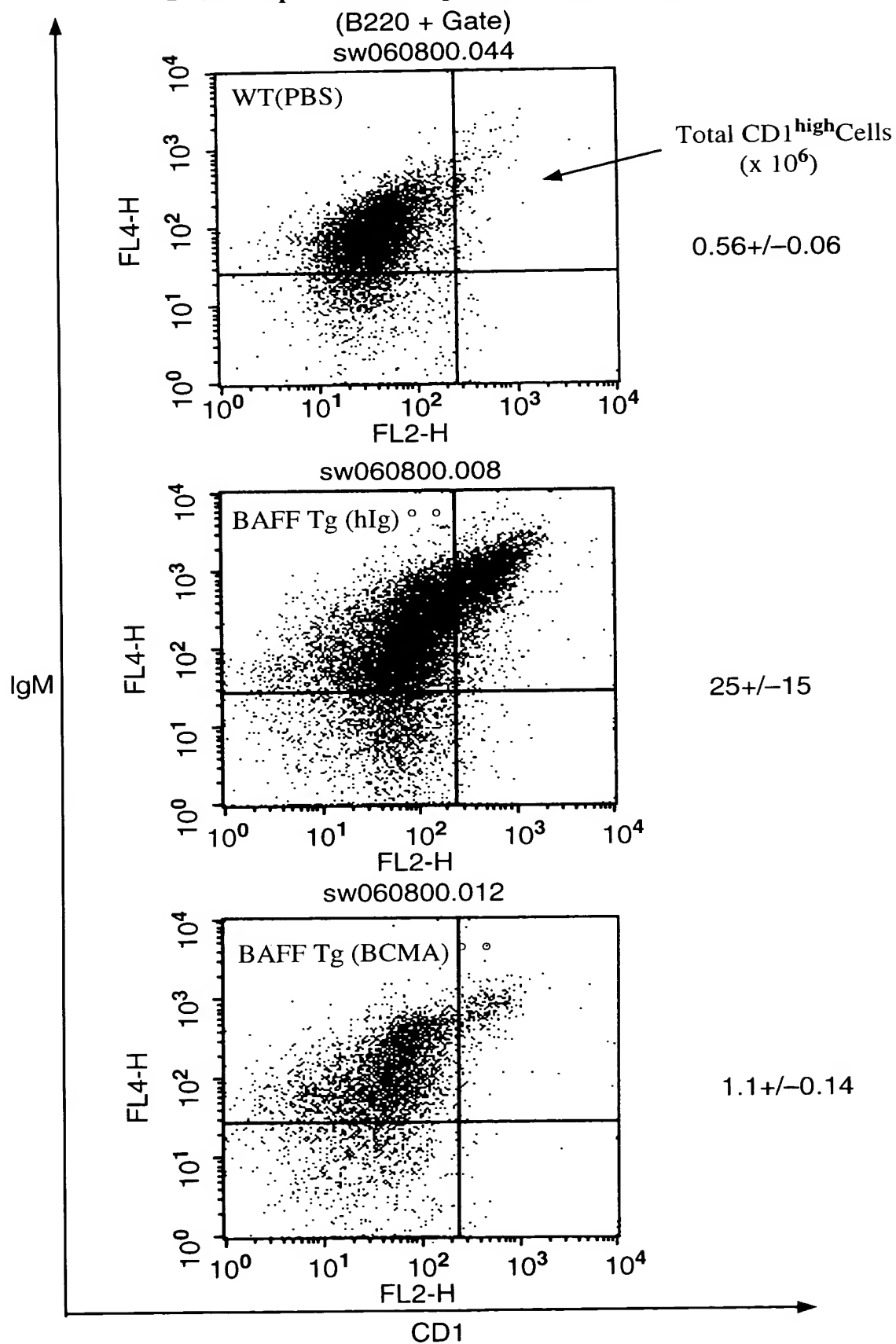


FIG. 10B

BCMA-Ig Treatment Reduces Total Mature B
and T2 B Cell Populations in Spleens of Baff Tg Mice

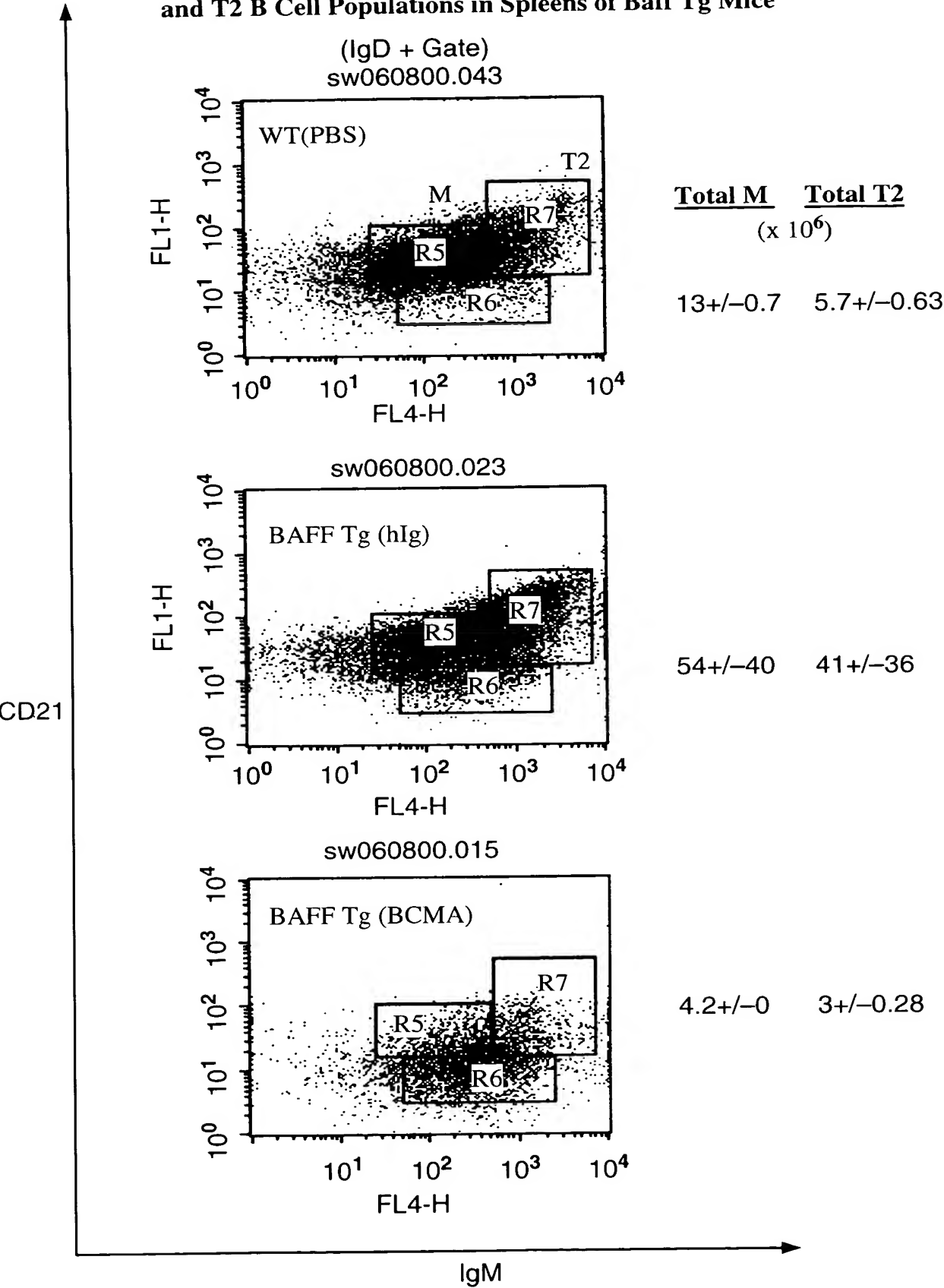
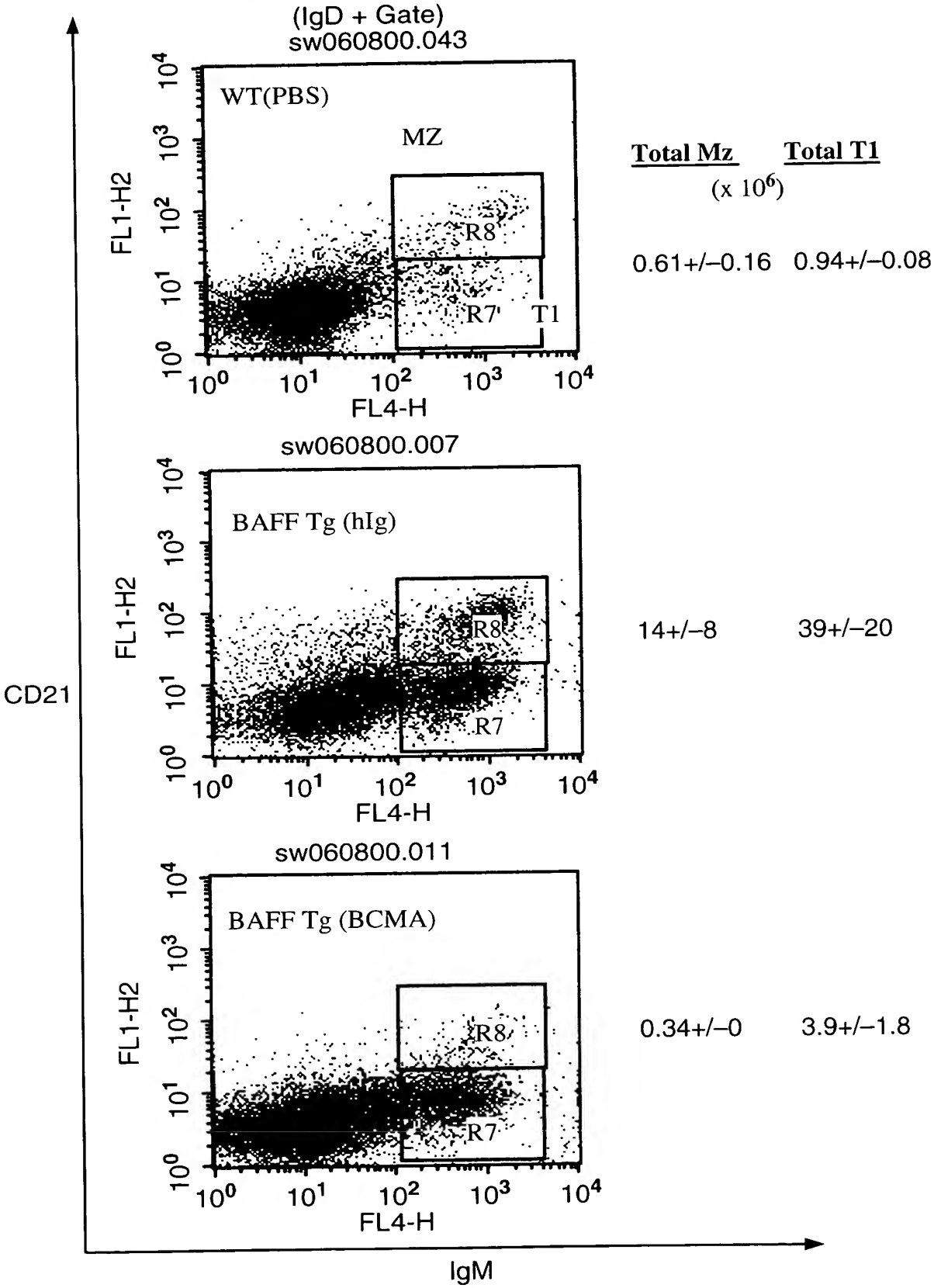


FIG. 10C

BCMA-Ig Treatment Reduces Total Marginal Zone
and T1 B Cell Populations in Spleens of Baff Tg Mice



hBCMA-hIg Treatment Reduces Spleen Weight in BAFF Tg Mice

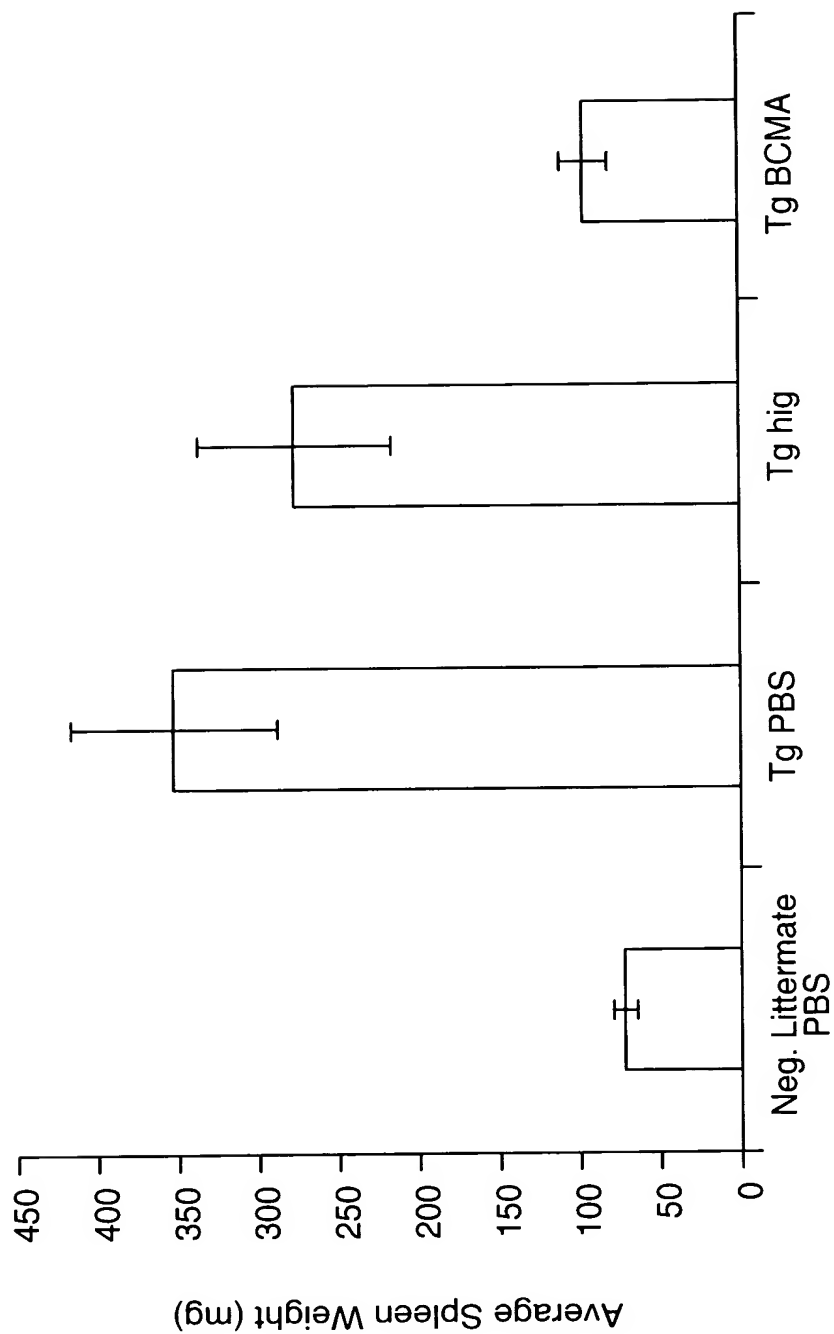


FIG. 11

**BCMA-Ig Treatment Reduces Proteinuria in BAFF Tg Mice
to Levels Comparable to Wildtype Mice**

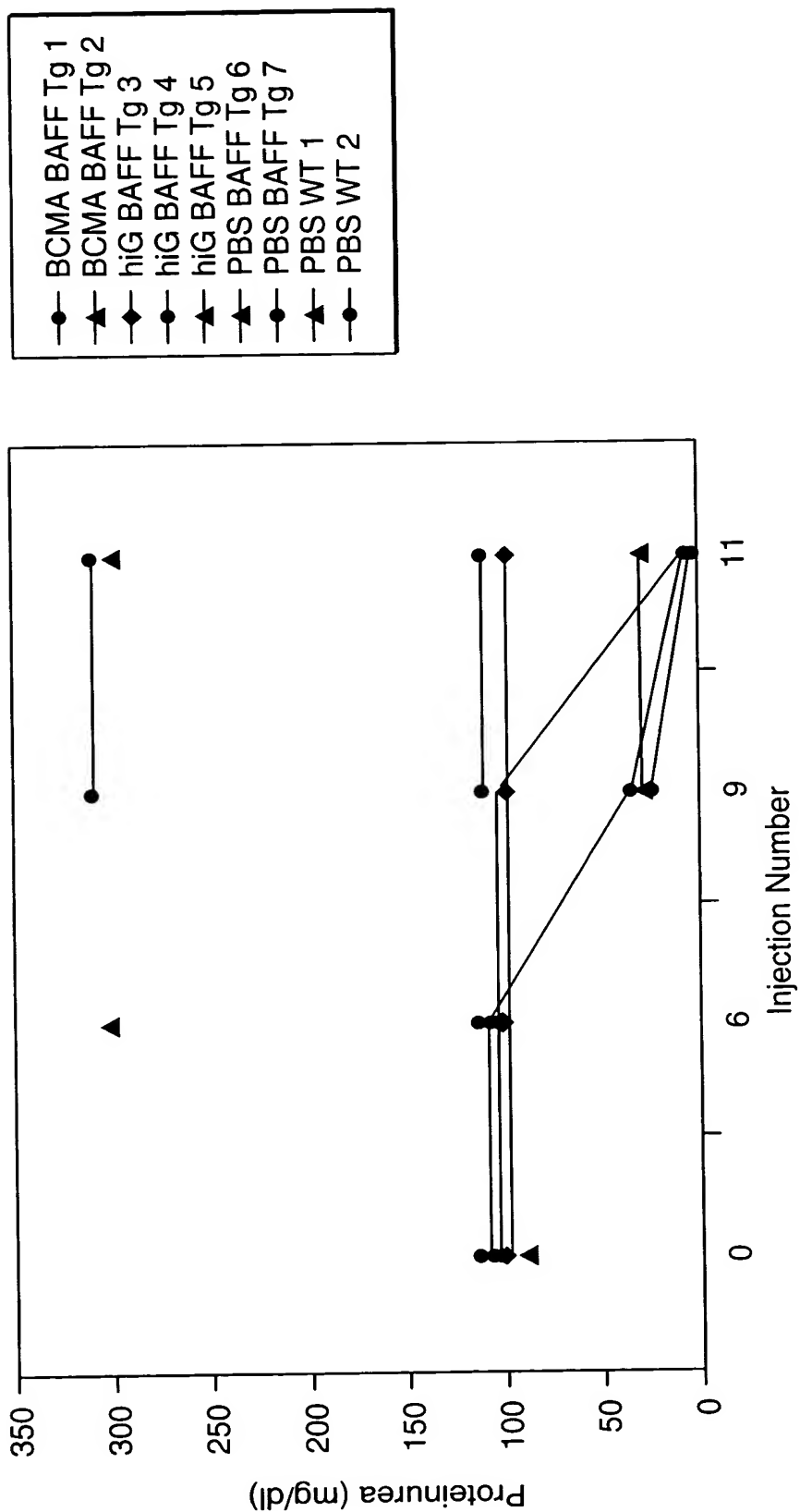


FIG. 12

**Average Mean Arterial Pressure in BAFF transgenic
(BAFF +) and wild-type controls (BAFF -)**

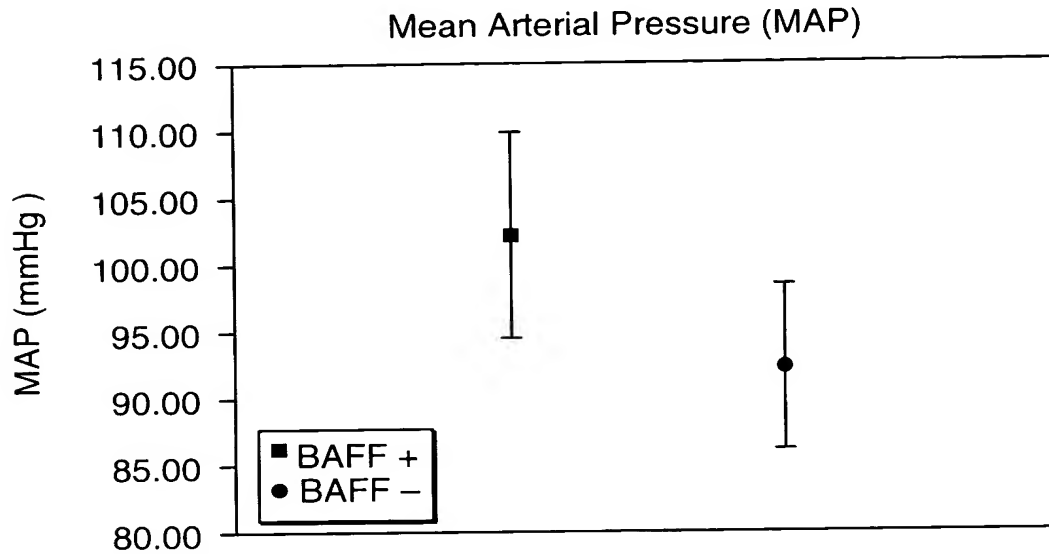


FIG. 13

**Individual Mean Arterial Pressure in BAFF transgenic
(BAFF +) and wild-type controls (BAFF -)**

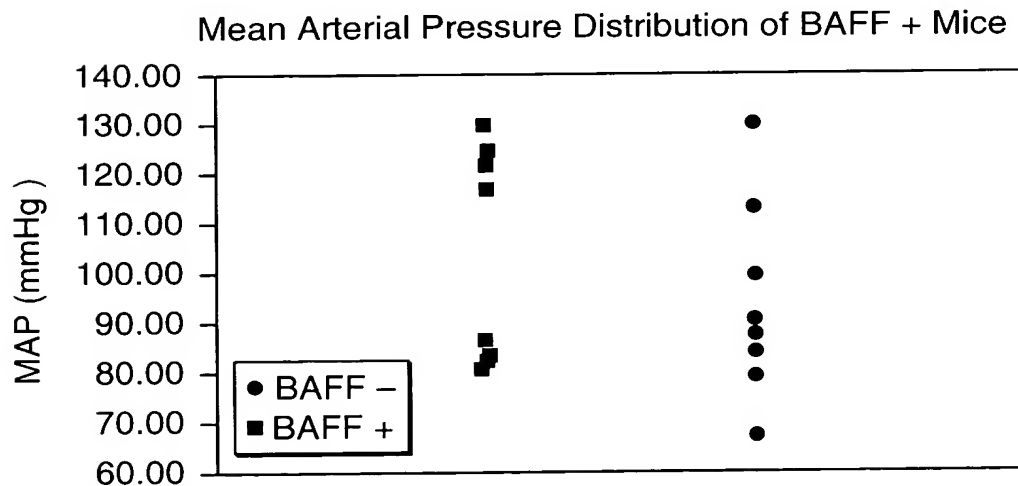


FIG. 14

BCMA-Ig Treatment of Moderately Nephritic SNF1 Mice
Slows Progression to Severe Nephritis

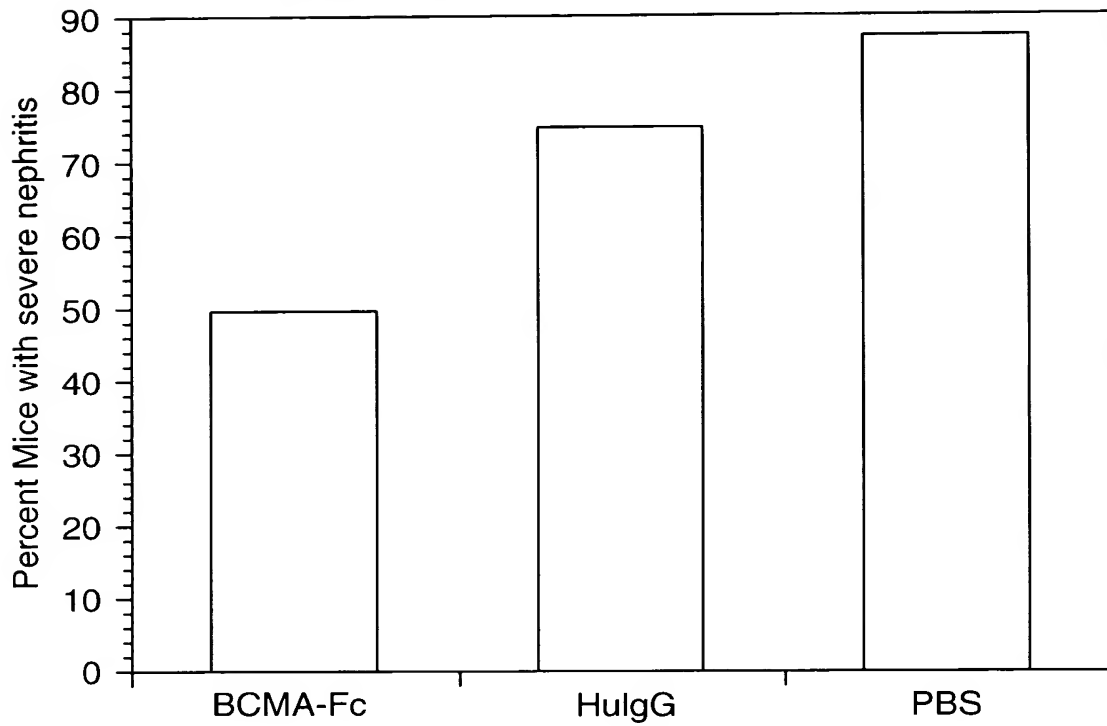


FIG. 15

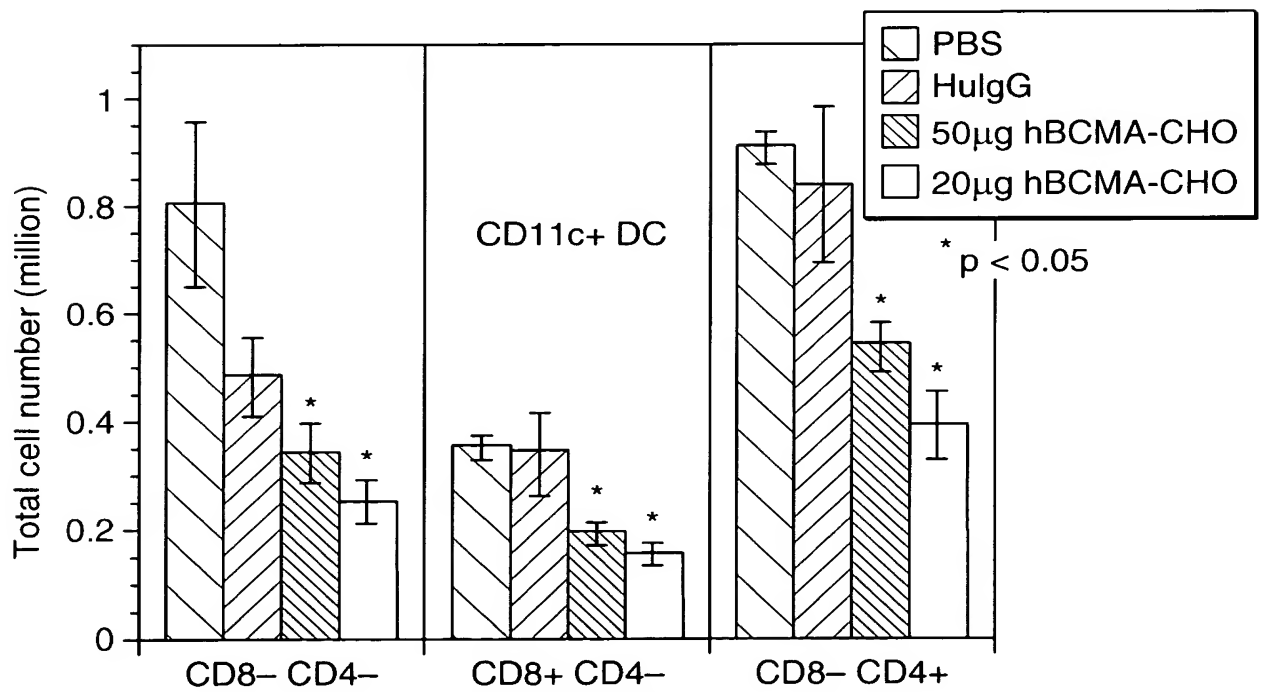


FIG. 16